

Logon

*** It is now 7/3/08 2:02:23 PM ***

Welcome to DialogLink - Version 5 Revolutionize the Way You Work!

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Thomson File Histories are now available directly through *Dialog*. Combined with the comprehensive patent and trademark information on *Dialog*, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in the following patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need.

Thomson File Histories are available from the following *Dialog* databases:

- CLAIMS/Current Patent Legal Status (File 123)
- CLAIMS/U.S. Patents (File 340)
- Chinese Patent Abstracts in English (File 344)
- Derwent Patents Citation Index (File 342)
- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO - Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)

- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN - U.S. Federal (File 226)

DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

Show Preferences for details

? Help Log On Msg

*** ANNOUNCEMENTS ***

"Thomson File Histories" are now available directly through Dialog in selected patent and trademark files. Combined with the comprehensive patent and trademark information on Dialog, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in one of the patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need. See HELP FILEHIST for more information about how to use the link and a list of files that contain the link.

The 2008 EMTREE Thesaurus has been added to EMBASE (Files 72, 73, 772, and 972)

RESUMED UPDATING

***File 120, U.S. Copyrights

RELOADS COMPLETED

***File 50, CAB Abstracts

***File 162, Global Health

FILES REMOVED

***Files 476/Financial Times & 473/Financial Times Abstracts

***Files 359,959,804, Chemical Economics Handbook

***Files 360,960, Specialty Chemicals Update Program

>>>For the latest news about Dialog products, services, content<<<

>>>and events, please visit What's New from Dialog at <<<

>>><http://www.dialog.com/whatsnew/>. You can find news about <<<

>>>a specific database by entering HELP NEWS <file number>. <<<

? Help Off Line

* * *

Connecting to Rob Pond - Dialog - 264751

Connected to Dialog via SMS003132818

? B 15, 9, 610, 810, 275, 476, 624, 621, 636, 613, 813, 16, 160, 634, 148, 20, 35, 583,
65, 2, 474, 475, 99, 256, 348, 349, 347, 635, 570, PAPERSMJ, PAPERSEU, 47

>>>W: 476 does not exist

1 of the specified files is not available

[File 15] ABI/Inform(R) 1971-2008/Jul 02

(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 9] Business & Industry(R) Jul/1994-2008/Jul 02

(c) 2008 The Gale Group. All rights reserved.

**File 9: UD names have been reset to reflect currency. All data is present.*

[File 610] Business Wire 1999-2008/Jul 03

(c) 2008 Business Wire. All rights reserved.

**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 810] Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire . All rights reserved.

[File 275] Gale Group Computer DB(TM) 1983-2008/Jun 25
(c) 2008 The Gale Group. All rights reserved.

[File 624] McGraw-Hill Publications 1985-2008/Jul 03
(c) 2008 McGraw-Hill Co. Inc. All rights reserved.

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 621] Gale Group New Prod.Annou.(R) 1985-2008/Jun 16
(c) 2008 The Gale Group. All rights reserved.

[File 636] Gale Group Newsletter DB(TM) 1987-2008/Jun 26
(c) 2008 The Gale Group. All rights reserved.

[File 613] PR Newswire 1999-2008/Jul 03
(c) 2008 PR Newswire Association Inc. All rights reserved.

**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 813] PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc. All rights reserved.

[File 16] Gale Group PROMT(R) 1990-2008/Jun 26
(c) 2008 The Gale Group. All rights reserved.
**File 16: Because of updating irregularities, the banner and the update (UD=) may vary.*

[File 160] Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group. All rights reserved.

[File 634] San Jose Mercury Jun 1985-2008/Jun 29
(c) 2008 San Jose Mercury News. All rights reserved.

[File 148] Gale Group Trade & Industry DB 1976-2008/Jun 06
(c)2008 The Gale Group. All rights reserved.
**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 20] Dialog Global Reporter 1997-2008/Jul 03
(c) 2008 Dialog. All rights reserved.

[File 35] Dissertation Abs Online 1861-2008/Nov
(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 583] Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group. All rights reserved.
**File 583: This file is no longer updating as of 12-13-2002.*

[File 65] Inside Conferences 1993-2008/Jul 02
(c) 2008 BLDSC all rts. reserv. All rights reserved.

[File 2] INSPEC 1898-2008/Jun W1
(c) 2008 Institution of Electrical Engineers. All rights reserved.

[File 474] New York Times Abs 1969-2008/Jul 03
(c) 2008 The New York Times. All rights reserved.

[File 475] Wall Street Journal Abs 1973-2008/Jul 02
(c) 2008 The New York Times. All rights reserved.

[File 99] Wilson Appl. Sci & Tech Abs 1983-2008/Apr
(c) 2008 The HW Wilson Co. All rights reserved.

[File 256] TecInfoSource 82-2008/Aug
(c) 2008 Info.Sources Inc. All rights reserved.

[File 348] EUROPEAN PATENTS 1978-2007/ 200826
(c) 2008 European Patent Office. All rights reserved.

[File 349] PCT FULLTEXT 1979-2008/UB=20080626/UT=20080619
(c) 2008 WIPO/Thomson. All rights reserved.

[File 347] JAPIO Dec 1976-2007/Dec(Updated 080328)
(c) 2008 JPO & JAPIO. All rights reserved.

[File 635] Business Dateline(R) 1985-2008/Jul 03
(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 570] Gale Group MARS(R) 1984-2008/Jun 26
(c) 2008 The Gale Group. All rights reserved.

[File 387] The Denver Post 1994-2008/Jul 01
(c) 2008 Denver Post. All rights reserved.

[File 471] New York Times Fulltext 1980-2008/Jul 05
(c) 2008 The New York Times. All rights reserved.

**File 471: *File 471:UD names are being reset to reflect currency. All data is present and up to date.*

[File 492] Arizona Repub/Phoenix Gaz 19862002/Jan 06
(c) 2002 Phoenix Newspapers. All rights reserved.

**File 492: File 492 is closed (no longer updating). Use Newsroom, Files 989 and 990, for current records.*

[File 494] St LouisPost-Dispatch 1988-2008/Jul 02
(c) 2008 St Louis Post-Dispatch. All rights reserved.

[File 631] Boston Globe 1980-2008/Jun 29
(c) 2008 Boston Globe. All rights reserved.

[File 633] Phil.Inquirer 1983-2008/Jul 03
(c) 2008 Philadelphia Newspapers Inc. All rights reserved.

[File 638] Newsday/New York Newsday 1987-2008/Jul 03
(c) 2008 Newsday Inc. All rights reserved.

[File 640] San Francisco Chronicle 1988-2008/Jul 02
(c) 2008 Chronicle Publ. Co. All rights reserved.

[File 641] Rocky Mountain News Jun 1989-2008/Jul 03
(c) 2008 Scripps Howard News. All rights reserved.

[File 702] Miami Herald 1983-2008/Jun 26
(c) 2008 The Miami Herald Publishing Co. All rights reserved.

[File 703] USA Today 1989-2008/Jul 02
(c) 2008 USA Today. All rights reserved.

[File 704] (Portland)The Oregonian 1989-2008/Jun 29
(c) 2008 The Oregonian. All rights reserved.

[File 713] Atlanta J/Const. 1989-2008/Jun 29
(c) 2008 Atlanta Newspapers. All rights reserved.

[File 714] (Baltimore) The Sun 1990-2008/Jul 02
(c) 2008 Baltimore Sun. All rights reserved.

[File 715] Christian Sci.Mon. 1989-2008/Jun 30
(c) 2008 Christian Science Monitor. All rights reserved.

[File 725] (Cleveland)Plain Dealer Aug 1991-2008/Jul 01
(c) 2008 The Plain Dealer. All rights reserved.

[File 735] St. Petersburg Times 1989- 2008/Jun 29
(c) 2008 St. Petersburg Times. All rights reserved.

[File 477] Irish Times 1999-2008/Jul 03
(c) 2008 Irish Times. All rights reserved.

[File 710] Times/Sun.Times(London) Jun 1988-2008/Jun 30
(c) 2008 Times Newspapers. All rights reserved.

[File 711] Independent(London) Sep 1988-2006/Dec 12
(c) 2006 Newspaper Publ. PLC. All rights reserved.

**File 711: Use File 757 for full current day's news of the Independent, as well as full coverage of many additional European news sources.*

[File 756] Daily/Sunday Telegraph 2000-2008/Jul 02
(c) 2008 Telegraph Group. All rights reserved.

[File 757] Mirror Publications/Independent Newspapers 2000-2008/Jun 30
(c) 2008. All rights reserved.

[File 47] Gale Group Magazine DB(TM) 1959-2008/Jun 23
(c) 2008 The Gale group. All rights reserved.

? s pd<20000112

Processing

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>>>W: One or more prefixes are unsupported
or undefined in one or more files.

S1 69787003 S PD<20000112

? s marketing(w) (object or objects)

Processing
Processing
Processing

20065826 MARKETING
2415154 OBJECT
1483002 OBJECTS

S2 153 S MARKETING(W) (OBJECT OR OBJECTS)

? s object(5n) (container or containers)

Processing

2415154 OBJECT
1040115 CONTAINER
932014 CONTAINERS

S3 10991 S OBJECT(5N) (CONTAINER OR CONTAINERS)

? s webpage or webpages or web-page or web-pages or website or websites or web-site or web-site

Processing

21708 WEBPAGE
5071 WEBPAGES
8 WEB-PAGE
9 WEB-PAGES
5382071 WEBSITE
608918 WEBSITES
13 WEB-SITE
13 WEB-SITE

S4 5746822 S WEBPAGE OR WEBPAGES OR WEB-PAGE OR WEB-PAGES OR WEBSITE OR WEBSITES OR WEB-SITE OR WEB-SITE

? s s1 and s3 and s4

Processing

69787003 S1
10991 S3
5746822 S4

S5 16 S S1 AND S3 AND S4

? s dynamic or dynamically

2551395 DYNAMIC
334736 DYNAMICALLY

S6 2765942 S DYNAMIC OR DYNAMICALLY

? s s5 and s6

16 S5
2765942 S6

S7 10 S S5 AND S6

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S8 8 RD (UNIQUE ITEMS)

? T s8/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

8/8/1 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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02369317 Supplier Number: 59220421 (Use Format 7 Or 9 For FULL TEXT)

Have toolkits will travel; Are you restricting yourself to Windows? Dave Jewell continues his excursion with portability toolkits by visiting the Open Source GTK+.(Product Information)

Jan 1 , 2000

Word Count: 2730 Line Count: 00231

Descriptors: Application development software; Product description/specification

Product/Industry Names: 7372513 (Application Development Software)

NAICS Codes: 51121 Software Publishers

Trade Names: GTK+ (Application development software)--Evaluation

8/8/2 (Item 1 from file: 813)

PR Newswire

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1193758 SFTU052

Borland Ships Visual dBASE 7 for Windows 95 & NT

Date: December 2, 1997

Word Count: 1,006

Company Name: BORLAND INTERNATIONAL, INC.

Ticker Symbol: BORL (NDQ)

Product: COMPUTER, ELECTRONICS (CPR)

Descriptors: NEW PRODUCTS & SERVICES (PDT)

State: CALIFORNIA (CA)

Section Heading: BUSINESS; TECHNOLOGY

8/8/3 (Item 2 from file: 813)

PR Newswire

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1166440

LAM054

Borland Announces Visual dBASE 7 For Windows 95 & NT

Date: October 13, 1997

Word Count: 1,031

Company Name: BORLAND INTERNATIONAL, INC.

Ticker Symbol: BORI (NDQ)

Product: COMPUTER, ELECTRONICS (CPR)

Descriptors: NEW PRODUCTS & SERVICES (PDT)

State: CALIFORNIA (CA)

Section Heading: BUSINESS; TECHNOLOGY

8/8/4 (Item 1 from file: 20)

Dialog Global Reporter

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07951969 (USE FORMAT 7 OR 9 FOR FULLTEXT)

BEST SERVED COLD - HOT AND CLUSTERED.

Advanced server technologies, such as clustering and storage area

October 27, 1999

Word Count: 2224

Company Names: Novell Inc; Microsoft Corp; International Business Machines Corp

Descriptors: Science & Technology; General News

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

SIC Codes/Descriptions: 3571 (Electronic Computers); 3572 (Computer Storage Devices)

Naics Codes/Descriptions: 334111 (Electronic Computer Mfg); 334112 (Computer Storage Device Mfg)

>>>W: "FREE" is not a valid format name in file(s): 347-349

? t s8/k/all

8/K/1 (Item 1 from file: 275)

Gale Group Computer DB(TM)

(c) 2008 The Gale Group. All rights reserved.

...width is a routine that sets the border width of a container ` object':

gtk...

...created by calling the appropriate 'new' routine in order to retrieve a pointer to a dynamically allocated data structure. Thus gtk... development system capable of working with standard libraries. If you check out the official GTK+ website at <http://www.gtk.org>, you'll find that a number of alternative language bindings...

...version of wxWindows is called, unsurprisingly, wxWindows/GTK and can be downloaded from the aforementioned website. A big advantage of wxWindows, of course, is the large number of platforms that are...editing the properties of the currently selected widget. You can find VDKBuilder at its own website:

<http://www.programmers.net/artic/Motta/vdkbuilder/index.htm>.

GTK+ projects

There are several other...

20000101

8/K/2 (Item 1 from file: 813)

PR Newswire

(c) 1999 PR Newswire Association Inc. All rights reserved.

Correction:

...the Professional and Client/Server editions, customers should visit Borland's new Visual dBASE 7 website at <http://www.borland.com/VdBASE/> . Some of these features include:

New Two-Way Integrated...

...and custom-made components built with Delphi, C++, or Visual Basic.

New Data Modules and Object Containers for easily managing and maintaining relationships between visual components, database components and objects.

New programmatic...

...SQL Server, InterBase and ODBC data sources.

Web Wizards and Web Tools for easily publishing dynamic data over the Internet.

Enhanced 32-bit Integrated Compiler for seamless royalty-free application deployment...

...customers may call Borland at 800-233-2444 or visit Borland's Visual

dBASE 7 website at <http://www.borland.com/VdBASE/> . These prices are in US dollars and apply only...

...Borland press releases and additional corporate and product information are also available on Borland's website at <http://www.borland.com>

CONTACT: Steve Curry of Borland International, Inc., 408-431-4863...

8/K/3 (Item 2 from file: 813)

PR Newswire

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Correction:

...the Professional and Client/Server editions, customers should visit Borland's new Visual dBASE 7 website, at <http://www.borland.com/VdBASE/>

New Two-Way Integrated Report Writer for quickly building...

...and custom-made components built with Delphi, C++, or Visual Basic.

New Data Modules and Object Containers for easily managing and maintaining complex relationships between components, database tables, and objects.

New Grid...

...Server, InterBase and ODBC data sources.

Web Wizards and DeltaPoint Web Tools for easily publishing dynamic data over the Internet.

Enhanced 32-bit Integrated Compiler for seamless application deployment.

InstallShield Express...

...call Borland at 1-800-233-2444 or visit Borland's new Visual dBASE 7 website at <http://www.borland.com/VdBASE/>. These prices are in US dollars and apply only...

...Borland press releases and additional corporate and product information are also available on Borland's website at <http://www.borland.com>

CONTACT: Susan E. Walker of Neale-May & Partners, 415-328...

8/K/4 (Item 1 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...NetWare 5 servers to be interlinked into a high-availability cluster, where resources can be dynamically switched or moved to any server in the cluster. This allows resources such as users...

...All data is consolidated on the storage unit.

To take another example, a server running websites A and B fails. This is where NCS can be configured to automatically move the resources of that server, in this case two websites, onto the other two servers in the cluster. The IP addresses, trustee rights and applicable installed software can be cascaded over to the other server (see diagram 2). It shows website A move to server two and website B move to server three. The idea is that an IT department can escalate the...

...namely cluster container, cluster node, cluster resource, resource template, and volume resource. A NDS Cluster Container object represents each cluster of nodes on the network and manages the configuration of a cluster...

19991027

8/K/5 (Item 1 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date
---------	--------	------	------

Abstract ...data store includes static identification data about a user. A second data store includes moderately dynamic personal data about the user. A third data store includes dynamic demographic information data about the user. An electronic wallet can be used with the system...

Type	Pub. Date	Kind	Text
Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

Specification: ...connection or wireless connection. A second data store may include what is known as moderately dynamic personal data about a user or may users, again a consumer or consumers. This would... ...is stored primarily for the convenience of the consumer. A third data store may include dynamic demographic information data about the users or consumers. This data may be mined from the...account file can generally be referred to as a "courtesy account."

With respect to "moderately dynamic personal data", this is intended to mean a large amount of data, which is dynamic and which is stored over long periods of time. Such types of data includes, for... ...an account and file can generally be referred to as a "service account."

As to "dynamic demographic information data", it is characterized by being demographic data including, user interests, user profiles... ...information further includes data that is commonly associated with an individual, i.e., the "moderately dynamic personal information", and can be accessed by specific types of organizations or entities such as... ...that can be used.

Finally, it is also desirable to organize demographic information, i.e., "dynamic demographic information data", from consumers into collections of data for evaluation and use by other...service account 33 which is maintained for the benefit of the consumer and contains "moderately dynamic personal data" about the consumer 25, as well as software programs which can be accessed... ...service account. This data is characterized by being a large amount of data which is dynamic and stored over long periods of time. It can be used for functions such as... ...become clearer further herein.

Figure 1 also shows a third type of data known as "dynamic demographic information data" which is kept in a value generation account 25. This file or...the consumer's independent investigation.

This feature is more like a "shopping cart" on a website or service provider site on the Internet, where the shopper can span multiple merchant sites...identification data, the second data store stored on the data storage and which includes moderately dynamic personal data, and the third data store which includes dynamic demographic information data, this is more clearly illustrated in FIG. 12. The courtesy count as... ...use having access to the information bank 23. The second data store correspondences to the dynamic personal data in the service account, and includes data about the user such as billing... ...record each of its members as being some form of e-cash and the actual "object" in the container 173 is a "connector" to the real e-cash application. The programming provides that the...

Claims: ...accessing and using;

a second data store stored on said data storage means company moderately dynamic personal data about the user; and

a third data store stored on said data storage means comprising dynamic demographic information data about the user.

2. A system according to claim 1 further comprising... ...claim 1 further comprising authorizing means for allowing selected users access to and use of dynamic personal information data in said third data store.

6. A system according to claim 5 further comprising matching means for matching selective dynamic personal information data in said third data store which is specific to a consumer with... ...the first data store;

storing a second data store made up of data comprising moderately dynamic personal data about the user having access to the second data store; and

storing a second data store made up of data comprising dynamic demographic information data about the user having access to the third data store.

12. A...

8/K/6 (Item 1 from file: 349)

Fulltext available through: [Order File History](#)

PCT FULLTEXT

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	Country	Number	Kind	Date
Patent				19

Detailed Description:

...code in the web page which the browser cannot understand.

Other WWW-related functionality includes Dynamic HTML. Dynamic HTML is a set of features currently incorporated in the Microsoft Internet Explorer browser that enable authors to dynamically change the rendering and content of an HTML document. Using Dynamic HTML, a content developer or programmer can access the attributes of a document's contents... ..content (such as when a user clicks on a graphical button image). The features of Dynamic HTML can be elicited through the use of VBScript or JavaScript scripts embedded in a... ..forms the basis for Internet telephony.

While the transmission of visual images (both static and dynamic), text, and sound over the Internet is well-known, the transmission of other types of...file;

Fig. 7 is a flow-diagram illustrating a first embodiment of an embodiment using

Dynamic HTML to provide force effects in web pages;

Fig. 8 is a diagrammatic illustration of the coordinate frames provided in Dynamic HTML;

Fig. 9 is a diagrammatic illustration of coordinates used in a transformation to obtain... ..Fig. 10 is a flow-diagram of illustrating a second embodiment of an embodiment using

Dynamic HTML to provide force effects in web pages;

Figs. 11a and 11b are diagrammatic illustrations...page including HTML instructions and/or other instructions for implementing a web page, e.g. Dynamic HTML instructions, JavaScript instructions, Java or ActiveX code, an embedded plug-in reference (such as...the links of a web site that gives information about earthquakes.

Authored effects can be "dynamic," i.e., the behavior of the effect can change depending on the author's intent...

...site will not be compromised after the cursor has been guided to the advertisement. The dynamic nature of these effects can be achieved either through scripting (e.g. using such languages...Java applets or ActiveX controls in the web page, as described in greater detail below.

Dynamic HTML

Dynamic HTML is a set of features currently in browsers such as Microsoft Internet Explorer 4.0 that enable authors to dynamically change the rendering and content of an HTML 1.5 document. Using Dynamic HTML, a content developer or programmer can access the attributes of the graphical objects of... ..user clicks a button while the mouse pointer is over the object). The power of Dynamic HTML can be elicited, for example, through the use of VBScript or JavaScript scripts embedded... ..through Visual Basic or C++, as is well known to those skilled in the

art.

Dynamic HTML can be used to enable the feeling of generic effects in web pages.

FIGURE 7 presents a flow diagram of the present invention in accordance with a first Dynamic HTML embodiment in which a separate application program runs in parallel with a web browser...page object having forces associated with it) on the web page through the use of Dynamic HTML functions. If no event notification is received in step 292, the process continues to... ..of determining if a relevant object is being touched is provided in the pseudocode below. Dynamic HTML is hierarchical in nature, where characteristics of an object may be provided in parent objects to the object. Since Dynamic HTML is hierarchical, the element passed immediately to a requesting application or filtion. may not... ..touched? by the pointer is bold text. The below function checks this hierarchy. Given a Dynamic HTML object, called "elem", this function will determine whether the object is something to which... ..hyperlink), the application calculates the screen coordinates of the object in step 296 using the dynamic HTML functions. The application then generates the appropriate force effect in step 298, such as...The difference between the coordinate frame of the mouse and the coordinate frame of the Dynamic HTML object requires that one of the coordinate frames be transformed to be operable with... ..other. The mouse pointer position and effects such as enclosures are described in screen coordinates. Dynamic HTML objects such as hyperlinks are described in coordinates relative to other Web page objects; to derive the absolute screen coordinates of a Dynamic HTML object, several coordinate frame transformations may have to be applied based on the returned Dynamic HTML object. An example of the hierarchy of objects and the transformations required to achieve screen frame coordinates are illustrated in FIGURE 8, which shows coordinate frames in Dynamic HTML. The frames may include a screen frame (absolute frame) 3 1 0, a window... ..As currently implemented, it is not possible to compute the absolute screen coordinates of a Dynamic HTML object by traversing its transformation hierarchy because the farthest traversal is to the client... ..user experience.

5 The preferred way to resolve this problem is simple, elegant, and fast. Dynamic HTML returns an "event object" when the application is notified of a mouse interaction; this... ..position in both relative and screen coordinates.

These values can be used to ascertain a Dynamic HTML object's transformation between relative and screen coordinates. For example, the relevant "event" object object's "container", which is the frame that encloses the object (such as the web browser). Once these... ..effects are often used with normal HTML code having no force effects included therein, the Dynamic HTML is preferably only implemented by the browser or other program providing the generic effects. For example, after the HTML document is received, it is processed into Dynamic HTML by the browser or separate application on the client so that web object properties can be obtained and generic forces applied. Alternatively, the web page can be provided as Dynamic HTML instructions and downloaded in that form.

A second implementation of integrating generic force effects with Dynamic HTML can be used in which the web browser itself has the ability to check...navigating among web pages, such as "Favorites" and "History" options to provide easier browsing.

The Dynamic HTML embodiment, when used without other tools, can only apply generic effects. In order to...generic effects in all browsers that support Active Accessibility. As with the proprietary browser and Dynamic HTML embodiments, this embodiment can be combined with the Java applet or ActiveX embodiments to... ..active area in which the applet executes. However, the fact that Java applets are actually dynamic programs, rather than static content, allows an endless range of possibilities for touch interaction with...feel to web pages. The first way is to create an ActiveX control that contains dynamic visual and force content. Thus, each ActiveX control embedded in a web page would have...from Immersion Corporation using only the ActiveX control and a scripting language. Coupling this with Dynamic HTML yields a 1 5 powerful tool for authoring feel into web pages.

To illustrate... ..page 380 shown in Figure 13a and web page 387 in Figure 13b are interactive, dynamic multimedia demonstrations with feel. In web page 380, a user may compress any of springs...in front of the moving ball.

Finally, the web page of Figure 15 illustrates a dynamic force simulation including a moveable block or "cart" 396 with an upside-down pendulum 398.... ..The embodiments described above that support generic effects are the Proprietary Browser, Active Accessibility, and Dynamic HTML embodiments. If none of these embodiments are available, another option may be used. Using... ..the force-only ActiveX control, adding JavaScript code to facilitate force-effect scripting, and utilizing Dynamic HTML to assign effects to web page objects such as hyperlink objects. The types of...the preferred embodiment of the present invention, a plug-in including a reference to a Dynamically Linked Library (DLL) is provided to give functionality to the JFF suffix. The DLL can...to the detected position and state (if appropriate), and a command is sent to the Dynamically Linked Library (DLL) to place a force feedback command on the interface which can be...be a hyperlink that, when selected with the cursor, will cause a force-feedback related website to be downloaded on the client machine.

The force feedback website can provide force feedback resources such as additional force effects, guides, updates, etc. The user...the authoring tool takes an existing HTML document (or creates a new document), internally uses Dynamic HTML to obtain object information and add force effects. As explained above, the authoring tool...

Claims:

...properties of said web page object associated with said generic force effect are accessed using Dynamic HTML..

27 A method for implementing a web page authoring interface including the ability to...

8/K/7 (Item 2 from file: 349)

Fulltext available through: [Order File History](#)

PCT FULLTEXT

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	Country	Number	Kind	Date
Patent				19

Detailed Description:

...be connected to pin 18 of processor 16 and may be used to program and dynamically control the processor 16. The ground may be connected to pins 8 and 19 of...in television signals, but in any other signal-based source, such as music, film, a website, or the like, so that the lighting environment, or specific lights, whether in the home...effect provided by an embodiment of the illumination system can permit freeze-frame imaging of dynamic processes, or can enhance the resolution of images acquired using conventional imaging modalities.

An embodiment...different colors of light. The attractive illumination effects of the variable frequency strobe permit improved, dynamic lighting environments in areas where lighting is attractive to customers, such as in retail stores...
...illuminate a non-opaque object for display purposes. In one aspect of the invention, the object is a container containing a fluid, both of which may be substantially transparent. In one aspect, the container...

8/K/8 (Item 3 from file: 349)

Fulltext available through: [Order File History](#)

PCT FULLTEXT

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	Country	Number	Kind	Date
Patent				19

English Abstract:

...object (40) directly or via an object request broker (43), and each of which is dynamically referenced in a "WebDoc" (39). Upon access via a URL to a server controlling the...

Detailed Description:

...resources to distributed servers. This latter capability is typically reserved for one person called the "website master".

Another model of object interaction over the Internet involves the JAVA computer programming language...5 The Parts 20 and Frames 21 that form a document are stored in an object called a "Bento" container 22, which allows the individual elements to be accessed and cataloged independently from the rendered...a receptionist object directly or via an object request broker, and each of which is dynamically referenced in a "WebDoc". Upon access via a URL to a server controlling the receptionist...

? t 8/7/2

8/7/2 (Item 1 from file: 813)

PR Newswire

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1193758

SFTU052

Borland Ships Visual dBASE 7 for Windows 95 & NT

Date: December 2, 1997 11:06 EST Word Count: 1,006

SCOTTS VALLEY, Calif.

, Dec. 2 /PRNewswire/ -- Borland International, Inc. (Nasdaq: BORI) today announced the shipment of Visual dBASE 7 for Windows 95 and Windows NT, a powerful new edition of its award-winning database development tool. Available in English, German and Japanese, the 32-bit version features many new visual tools to enhance developer productivity and deliver sophisticated database applications. Visual dBASE 7 offers new Two-Way visual design tools and object-oriented component support for maximum developer productivity, as well as a high-performance compiler and enhanced connectivity for Microsoft FoxPro, Access and corporate database servers, including Oracle, Sybase, Informix, DB2, Microsoft SQL Server, and InterBase.

"Visual dBASE 7 for Windows 95 & NT continues Borland's commitment to deliver high-performance, high-productivity development environments to corporate users," said Zack Urlocker, Borland's vice president of product management. "This new version brings Borland's proven visual RAD Workbench IDE to Xbase and database application programmers."

Visual dBASE 7 Professional and the Visual dBASE 7 Client/Server Suite are the two new Windows 95 & Windows NT versions of the industry's leading Xbase database development environment. Based upon an easy-to-use programming language, Borland's award-winning visual development tools and powerful 32-bit database technology, Visual dBASE 7 is a fast and easy way for corporate developers and business professionals to deliver business database applications.

"Since we can not keep every unit in the Army connected to the network at all times, Visual dBASE's ease-of-use allows our users the flexibility to run applications for individual units or even entire commands -- and reconnect them back in as necessary," said Michael Joyce, CIO, Authorization Documentation Directorate, USAFMISA (US Army). "Best of all, there's plenty of muscle under the hood to handle our largest-scale tasks."

What's New in Visual dBASE 7

Visual dBASE 7 supports many new visual tools. For a more detailed description of these features and a matrix comparing the Professional and Client/Server editions, customers should visit Borland's new Visual dBASE 7 website at <http://www.borland.com/VdBASE/>. Some of these features include:

New Two-Way Integrated Report Writer for quickly building and delivering advanced database reports.

New Project Explorer for visually managing application files in a hierarchical TreeView and custom views.

New Visual SQL Builder for graphically creating powerful database queries.

New Support for ActiveX Controls for reusing third-party and custom-made components built with Delphi, C++, or Visual Basic.

New Data Modules and Object Containers for easily managing and maintaining relationships between visual components, database components and objects.

New programmatic Grid Control for visually displaying data and easy data interaction.

Optional new .DBF file format features referential integrity, field constraints and custom properties -- and new field types such as long, double and auto-increment.

New Support for Microsoft FoxPro and Access data.

New 32-bit Borland Database Engine includes native high-performance enhancements for dBASE, Paradox, Oracle, Sybase, Informix, DB2, Microsoft SQL Server, InterBase and ODBC data sources.

Web Wizards and Web Tools for easily publishing dynamic data over the Internet.

Enhanced 32-bit Integrated Compiler for seamless royalty-free application deployment.

InstallShield Express for automatically creating professional installation programs.

The Visual dBASE 7 Client/Server Suite includes everything in Visual dBASE 7 Professional, plus Borland SQL Links for high-performance database server connectivity, InterBase 95 Server for building and testing client/server applications, the Data Migration Wizard and support for Borland's MIDAS application server.

"In particular, Smart Reseller was pleased with the ability to flip back and forth between the GUI development environment and the always-excellent Brief code editor," said Ziff Davis' new sales channel publication (www.smartreseller.com) in a recent review of Visual dBASE 7. "Another win is the revamped report designer, which is far easier to use than the generators for Visual FoxPro and Microsoft Access...If you're using another desktop DBMS, Visual dBASE -- especially if you're using another Xbase -- is well worth considering."

Pricing and Availability

Visual dBASE 7 is now available from Borland and major software distribution channels. Visual dBASE 7 Professional has an estimated street price (ESP) of \$349.95. Owners of competitive products can purchase Visual

dBASE 7 Professional for an ESP of \$249.95. Current dBASE and Visual dBASE owners can upgrade to Visual dBASE 7 Professional for an ESP of \$199.95, with an enclosed rebate coupon. Visual dBASE 7 Client/Server Suite has an ESP of \$1495. Current Visual dBASE Client/Server owners can upgrade to Visual dBASE 7 Client/Server Suite for an ESP of \$995.

To obtain more information and to place orders, customers may call Borland at 800-233-2444 or visit Borland's Visual dBASE 7 website at <http://www.borland.com/VdBASE/>. These prices are in US dollars and apply only in the United States and Canada. International customers should contact their local Borland office, distributor or representative.

Borland: Making Development Easier

Borland International, Inc. is a leading provider of high-quality software products for corporate application developers worldwide. Borland is distinguished for its award-winning family of rapid application development tools and scalable middleware technology for desktop, client/server, Internet/intranet, and enterprise systems. The company's products are supported through comprehensive corporate and independent developer programs, value added resellers, and systems integrators. Founded in 1983, Borland is headquartered in Scotts Valley, California. For more information on Borland, customers can visit Borland Online at <http://www.borland.com>.

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SOURCE Borland International, Inc.

NOTE TO EDITORS: Visual dBASE 7 screenshots, customer references, and evaluation software are available from Borland's media relations department at 408-431-4609, kberkland.corp.borland.com. Previous Borland press releases and additional corporate and product information are also available on Borland's website at <http://www.borland.com>

CONTACT: Steve Curry of Borland International, Inc., 408-431-4863, or scurry.corp.borland.com; or Susan E. Walker of Neale-May & Partners, 650-328-5555, ext. 119, for Borland

Web site: <http://www.borland.com> and <http://www.borland.com/VdBASE>

(BORL)

? s webform(w)wizard

385 WEBFORM

241253 WIZARD

S9 13 S WEBFORM(W)WIZARD

? s s1 and s9

69787003 S1

13 S9

S10 8 S S1 AND S9

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S11 2 RD (UNIQUE ITEMS)

? t s10/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

10/8/1 (Item 1 from file: 610)

Business Wire

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00094038 19990823235B1500 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information

Monday , August 23, 1999 15:15 EDT

Word Count: 590

Company Names: BITSTREAM INC

Product Names: COMPUTER SOFTWARE; INTERNET; NETWORKS; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; DATA COMMUNICATIONS

10/8/2 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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02369248 Supplier Number: 59175763 (Use Format 7 Or 9 For FULL TEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4512 Line Count: 00364

Geographic Codes/Names: 1USA United States

Descriptors: Trade show report

Event Codes/Names: 240 Marketing procedures

Product/Industry Names: 2700020 (Publishing)

NAICS Codes: 511 Publishing Industries

File Segment: CD File 275

10/8/3 (Item 1 from file: 621)

Gale Group New Prod.Annou.(R)

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02153916 Supplier Number:

55533229 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information.

August 23 , 1999

Word Count: 568

Publisher Name: Business Wire

Industry Names: BUS (Business, General); BUSN (Any type of business)

10/8/4 (Item 1 from file: 16)

Gale Group PROMT(R)

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07002833 Supplier Number: 59175763 (USE FORMAT 7 FOR FULLTEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4215

Publisher Name: Seybold Publications, Inc.

Event Names: *240 (Marketing procedures)

Geographic Names: *1USA (United States)

Product Names: *2700020 (Publishing)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

NAICS Codes: 511 (Publishing Industries)

Advertising Codes: 55 Company Planning/Goals

10/8/5 (Item 2 from file: 16)

Gale Group PROMT(R)

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06583402 Supplier Number: 55533229 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information.

August 23 , 1999

Word Count: 568

Publisher Name: Business Wire

Industry Names: BUS (Business, General); BUSN (Any type of business)

10/8/6 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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11286406 Supplier Number: 55533229 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information.

August 23 , 1999

Word Count: 595 Line Count: 00053

Industry Codes/Names: BUS Business, General; BUSN Any type of business

File Segment: NW File 649

10/8/7 (Item 1 from file: 20)

Dialog Global Reporter

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06855977 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information

August 23, 1999

Word Count: 666

Descriptors: Facilities & Equipment; Company News; Marketing

10/8/8 (Item 1 from file: 570)

Gale Group MARS(R)

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01845851 Supplier Number: 59175763 (USE FORMAT 7 FOR FULLTEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4215

Publisher Name: Scybold Publications, Inc.

Event Names: *240 (Marketing procedures)

Geographic Names: *1USA (United States)

Product Names: *2700020 (Publishing)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

Naics Codes: 511 (Publishing Industries)
Advertising Codes: 55 Company Planning/Goals

? t s11/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

11/8/1 (Item 1 from file: 610)

Business Wire

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00094038 19990823235B1500 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information

Monday , August 23, 1999 15:15 EDT

Word Count: 590

Company Names: BITSTREAM INC

Product Names: COMPUTER SOFTWARE; INTERNET; NETWORKS; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; DATA COMMUNICATIONS

11/8/2 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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02369248 Supplier Number: 59175763 (Use Format 7 Or 9 For FULL TEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4512 Line Count: 00364

Geographic Codes/Names: IUSA United States

Descriptors: Trade show report

Event Codes/Names: 240 Marketing procedures

Product/Industry Names: 2700020 (Publishing)

NAICS Codes: 511 Publishing Industries

File Segment: CD File 275

? t s11/7/all

11/7/1 (Item 1 from file: 610)

Business Wire

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00094038 19990823235B1500 (THIS IS THE FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate

Marketing Now Has a System for Web Delivery of Customized Information

Business Wire

Monday, August 23, 1999 15:15 EDT

Text:

CAMBRIDGE, Mass., Aug 23, 1999 (BUSINESS WIRE)

- Pageflex, Inc. today announced WebForm Wizard(TM), a new module introduced as part of the Pageflex(TM) Mpower(TM) application suite. WebForm Wizard is designed to meet the needs of today's marketing organizations by enabling an on-line capture of customer information that can be used to deliver customized marketing information via the Web.

The WebForm Wizard is an NT utility that automatically generates a front-end Web submissions page that can be used to submit projects to the Mpower server via the Internet. The Web Form Wizard automatically creates a Web server page where customer information is entered. Web Form Wizard generates a Web page complete with all of the HTML elements and code necessary to make the Web form work, eliminating the task of writing Web server code. When placed on a Web server, the page can be called up in a Web browser and used to submit a job to Mpower server, resulting in a customized PDF document that can be previewed in the browser or delivered via e-mail.

Using WebForm Wizard, companies can combine the power of the Internet with sophisticated customization of their marketing messages. This combination provides targeted marketing messages that are delivered quickly to potential customers. Pageflex Mpower is a suite of internet-driven software applications that gives enterprise organizations the ability to design and produce customized marketing communications on demand. Mpower enables them to transcend the limitations of "one size fits all" communications by tailoring messages to an audience, whether that's a group or a single individual. No matter how complex the project, Mpower can assemble it dynamically and deliver it instantly in print, PDF, or via the Web.

According to Paul Trevithick, President of Pageflex, Inc., "The WebForm Wizard gives Mpower customers a jump start on providing on demand marketing services over the web. The ability to quickly fulfill a customer's marketing needs is critical in today's fast paced, competitive marketplace. Pageflex Mpower can help companies provide instant gratification to their customers. It can motivate customers to make informed buying decisions more quickly with information customized to their need instantly and delivered via the Internet."

WebForm Wizard is available to all current Pageflex Mpower customers, and will be available as part of the Mpower application suite. For more information about WebForm Wizard and the Pageflex Mpower solution, visit the Web site at www.pageflexinc.com. or call 800-551-0549.

About Pageflex, Inc.

Pageflex, Inc., which was established as a wholly owned subsidiary of Bitstream in 1999, develops, markets and supports on-demand marketing software and related technology. Driven by the profile of a particular target customer, on-demand marketing involves the automatic production of customized business marketing collateral such as datasheets and brochures directly from XML text and graphics data stored in web servers and/or databases. Flexible templates based on page design rules that ensure the generated PostScript or PDF documents meet high stylistic quality standards. Pageflex also licenses its underlying NuDoc(TM) XML-based composition engine on an OEM basis to independent software vendors. For more information on Pageflex and its products, visit the company on the World Wide Web at <http://www.pageflexinc.com>. (NASDAQ:BITS, <http://www.bitstream.com>)

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GEOGRAPHY: MASSACHUSETTS CALIFORNIA

INDUSTRY CODE: COMED
COMPUTERS/ELECTRONICS
TELECOMMUNICATIONS
INTERACTIVE/MULTIMEDIA/INTERNET

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11/7/2 (Item 1 from file: 275)
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02369248 Supplier Number: 59175763 (This Is The FULL TEXT)
Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Alexander, George; Brunner, Laurel
Seybold Report on Publishing Systems , NA
Nov 15, 1999

Text:

SEYBOLD SAN Francisco '99 provided a good opportunity to see a variety of approaches to catalog, database and variable-data publishing. In all these areas, the market has matured past the "novelty" period, when merely the ability to perform the application was enough to ensure sales. Prospects are increasingly looking at the practical aspects of efficiency, ease of use and trouble-free workflow, and the vendors are responding.

Catalog Publishers Start to Buy

After a decade of slow adoption, catalog publishers are starting to make major investments in systems to automate many of their processes. At the San Francisco show, there was a good selection of vendors for catalogers to talk to. To thrive, vendors must offer support for both Web and print catalogs. Thus, Pindar, which started in print catalogs, finds

that many of its new customers prefer to implement their Web catalogs first, following up with the print catalogs-both from the same database, of course.

A2I, which started out offering Web catalogs, has added support for the creation of Xpress pages. (This is notable because it is the first case we know of where a Web vendor has subsequently put substantial resources into supporting print. However, A2I was not actually demonstrating its Xpress-output capabilities at the show.)

Cascade Systems has picked catalog publishing as one of three markets for its focus. Banta, Object Publishing, Quark and Reed Technology were among the other exhibitors who targeted catalog publishing as one of the applications they can address. The efforts of Banta, Cascade and Object Publishing in the catalog market are covered in The Seybold Report on Internet Publishing, Vol. 4, No. 2.

Pindar's customers: Web first

Pindar showed a few new features for its Catalog Management System, but also of note were additions to its customer base:

- * Seme, a UK supplier of electronic repair components, with a catalog containing 750,000 parts, is now up and running.

- * Dick Blick (art supplies) will be running soon.

- * Black Box (cables and interconnection components) has its system up

and is already expanding into new areas, such as cross-selling via links among products, built-in fax-back of product information, online tutorials and special tools for the customer-service staff. Black Box is tracking user mouse clicks so it can identify patterns of usage and purchasing.

Pindar has noticed that getting a Web catalog up is now the priority for most customers. They recognize that each day that passes without the ability to take orders on the Web represents lost money. This is a switch from a few years ago, when the emphasis was on getting the print catalog converted, and the Web was viewed as a relatively low-priority spin-off from that effort.

Software additions. There are a few additions to the catalog software. From Milwaukee-based RTMS, Pindar has licensed "data-mining" software that can be used in conjunction with the Pindar system to identify purchasing trends. A new export module enables the sharing of catalog data with an external Web catalog system (for customers who choose not to use Pindar's offering in this area).

Pindar also plans to add automatic pagination using a version of the software already in use by its parent corporation in the UK, which does a high volume of directory composition. Also in the works are better tools for copywriting and the handling of multiple versions. This is important as Pindar moves into more consumer-oriented markets. (So far, most customers are business-to-business.)

Reed features client sites

Reed Technology and Information Services (RTIS) featured the sites of two of its most recent clients: ITT Canon and Rodale. The Rodale site (www.gearfinder.com) is particularly clever. The user can select a type of backpacking gear (e.g., boots or tents) and specify a few key attributes (e.g., price and weight) and get a built-on-the-fly comparison of the items. In this instance, the purpose is reader service and advertiser support. Rodale doesn't actually sell the gear.

ITT Canon is using Reed's Printability package, a tool for deriving subset catalogs from the main catalog database. The package produces a tagged output file, ready for import into Xpress. RTIS estimates that the resulting layout will be "80%-90% camera-ready," but will require some manual fine-tuning.

RTIS is working on a new version of Printability (called Printability Pro) that will add a number of features. It will work with more databases (including SQL Server and Oracle). It will add XML import. In addition to Xpress, it will support output to Frame, XML and other tag sets. The company plans a December release.

Database Publishing

There is a clear distinction between software for database publishing and variable-data printing. The former is a means of producing the master version of a document (such as a directory or reference book) containing a lot of records; the latter is used for producing a separate document for each record.

Though they are distinct, there is no rule saying that a single package has to do only database publishing or only variable-data printing. At the show, a couple of vendors (Datazone and Ektos) were addressing both. Ektos is covered here, under database publishing (because it places greater emphasis on that area). Datazone appears in our next section, under variable-data printing, where its news was. Readers should note that this

categorization is arbitrary.

Aside from the catalog applications already mentioned (which could, of course, be considered database publishing), we noticed two other database publishing specialists in San Francisco: Finite Matters and Ektelis, at its first U.S. show.

Finite Matters: Frame specialist adds HTML

Finite Matters (www.fml.com) specializes in tools and services based on FrameMaker. A year ago, it launched PatternStream, a tool for connecting databases to FrameMaker, to produce directories, listings and similar types of publications. PatternStream is menu driven, allowing fairly complex processing without the need to learn a programming or scripting language. The software can generate PDF files with embedded links between related topics.

Version 2 of PatternStream, which is slated for release this fall, includes the ability to generate HTML as well as page-oriented formats (via FrameMaker). PatternStream and related tools have been used to produce The Baseball Encyclopedia (Simon & Schuster) and various industrial catalogs, pricebooks and product data sheets.

PatternStream pricing starts at \$10,000 for the run-time engine, but for most users the relevant price is \$35,000, which includes the development tools and licensing for up to three servers. The cost of a copy of FrameMaker is not included.

Ektelis: database with a publishing focus

The Belgian firm Ektelis (www.ektelis.com) showed Ektos, which provides an object-oriented database and a suite of publishing-related tools. The Ektos environment is designed to make database publishing applications as easy as possible.

Basic Web publishing in Ektos is trivial. Any application developed in Ektos is Web-enabled by default. Querying and updating the database can be done from a Web browser. Ektos has integrated support for DHTML.

Ektelis, which has been involved in some database publishing and print personalization applications, is adding tools to help in these areas. It will be integrating an Xtension from a Dutch partner to allow control of Xpress from the database over TCP/IP (useful in print-on-demand and database publishing applications).

Another useful feature in some publishing environments is integrated XML support. Ektos has built-in XML parsing and structure-based functions (e.g., finding the "children" of a given node).

Ektos provides an intuitive visual development environment that shows the developer the object hierarchy and provides an easy way to edit attributes. The Ektos server runs under NT. The development client is Windows-based. All data entry and retrieval tasks can be done from a Web browser.

The object-oriented nature of Ektos makes it a natural for managing files of many different kinds, so it is a suitable development environment for Web-enabled asset management products. It is also appropriate for print-on-demand applications, kiosks and other database applications involving "media" files of one kind or another.

For large-scale publishing environments, or for situations where one party (the publisher) is responsible for managing the database while another (the printer) produces output from it, Ektos provides automatic synchronization of two copies of a database. When changes are made to one

copy, the other is updated automatically (but only the changes are sent).

Company background. Though Ektos is new to the market, Ektelis is not a new company. It was founded six years ago and developed Ektos for its internal needs. Ektos has been used in production environments since 1997, first as a catalog system for the largest Belgian museum, then as an online catalog for La Redoute, a mail-order clothing business. Ektelis then began selling Ektos to a few major vertical integrators (including Agfa and the Belgian phone company). It has finally begun selling it to developers in general.

Among Ektelis's customers are companies in a variety of industries, including Peugeot and Toyota Europe, Holiday Inn Europe, several museums and a couple of chemical companies.

Ektelis, which has opened a North American development operation in Montreal, has begun signing up North American integrators. The company is looking for venture capital.

Developers who are interested in checking out Ektos can download a demonstration version free from the Ektelis Web site (www.ektelis.com). This is a working version of the software, but with a limit on the number of records.

Variable Data: Plenty of Options

There's a lot more to variable-data printing than just linking some database fields to placeholders in an Xpress template. Of course, a number of products—including most of the early entrants into the field—do exactly that, and that is what a large part of the market wants. But we are struck by the many variations and alternative strategies that appear every few months. For most of the offerings shown in San Francisco, Xpress templates played a minimal role or none at all.

AudienceOne prepackages applications

AudienceOne specializes in Web-based one-to-one publishing applications (see The Seybold Report on Internet Publishing, Vol. 3, No. 1). Initially, the company offered a set of generic tools for setting up these applications: the Project Manager for designing applications, the

Publisher for capturing user input and selecting document components based on each request, and the Press Server for assembling the components into a single PDF file that is delivered to the customer. The tools are very flexible, but they do require someone with a fair amount of expertise to tailor them to a specific application.

In San Francisco, the company launched a set of packaged applications that can be implemented in target environments with minimal customization. The new packages are as follows:

- * ChannelOne for creating marketing and sales collateral that a distributor, dealer or other channel partner can easily apply its own brand to.

- * PointeOne to enable material concerning a variety of competing or related products from several vendors to be compiled into a custom document. Magazine publishers could use this to create custom combinations of reprints and vendor-supplied information, and trade-show companies could assemble custom documents for attendees using this tool.

- * BenefitOne for creating personal enrollment kits for 401(k) and similar benefit plans.

* InfoOne for streamlining the distribution of product information as a result of calls to toll-free numbers or E-mail information requests from Web sites.

If your application fits in one of these categories, these prepackaged applications promise to remove most of the pain from setting up a one-to-one publishing response system.

Datazone: variable graphs on the fly

When we've covered Datazone in the past, we have commented on the flexibility of its Miramo programmable composition package for formatting complex documents. But the package is also suitable for variable-data printing and for on-the-fly Web page generation. Datazone has been tuning its performance to keep up with the higher throughput required in these applications.

Datazone has been developing variable graphing software, primarily for financial documents. The initial version supports bar, line, pie and range charts generated via a few extensions to the Miramo markup language. In the demonstration we saw, many aspects of the graphs (general format, line weights, colors and so on) were determined by built-in defaults. Datazone is considering what tools it should provide to give users control over these parameters.

PageFlex: Web forms drive variable pages

A number of successful one-to-one marketing programs have employed input from Web users to generate customized marketing pieces. Generating the piece (either in print or PDF) has been PageFlex's focus.

But the company is now addressing input issues as well, with a product called

WebForm Wizard. This is a tool for creating

Web forms with all the data fields required for a variable-data job. The user gets to specify which type of input area to use for each data item (single or multi-line text boxes, drop-down lists, etc.). The user may not even have to specify what the fields are. If the application has already been developed for use with a database, the software will assume the same fields are required for the Web version. The Wizard produces a basic Web page containing the form. This can then be edited using any Web authoring tool.

Another new tool, called DesignOut, is used to transfer a layout from InDesign to PageFlex. After the basic design work is done in InDesign (which a designer might already be comfortable with), the variable-data aspects can be added on the PageFlex side. Since InDesign offers import capabilities from Xpress and PageMaker, it follows that layouts in these packages can be brought into PageFlex via InDesign.

Note on names. Bitstream's decision to spin PageFlex off as an independent subsidiary created a naming problem. Both the company and the product were called PageFlex. So the product has been renamed MPower, leaving PageFlex to refer only to the company.

For more about the integration of MPower into a "dynamic publishing" system demonstration, see the coverage of Banta in our sister publication, The Seybold Report Internet Publishing, Vol. 4, No. 2, pp. 15-16.

Think121 launches PdfExpress

PdfExpress is a new product designed to make it easy to create variable-data pages from almost any source. The idea is that, if you can create a PDF page, PdfExpress provides the tools to turn it into a variable page.

There are two phases in the variable-data process: authoring and merging. Authoring is accomplished using an Acrobat plug-in. The user clicks on an element (usually a line of text or an image) to mark it as variable and give it a name. Merging involves linking database fields to the variable items. PdfExpress provides a window that displays all the variable items in one pane and the database fields in a second pane. Any ODBC-compliant database will work. The user connects the two with the mouse in drag-and-drop fashion. The merge process can then be initiated.

The basic PdfExpress process is simple and intuitive; no programming expertise is required. But it is also suitable only for relatively simple jobs with minimal text variations. For those who are so inclined, PdfExpress has an internal scripting language that allows more complex processing, including variable-length text fields. (Reflowing of text, with new line breaks, is not supported, however.)

We think PdfExpress will be attractive for users with relatively simple variable-data printing jobs, especially if they are not creating their pages in Xpress. Most tools in this market are built around Xtensions, which leaves non-Xpress users out in the cold. Virtually any application can produce PDF files (either directly or via the Distiller).

VariScript for Xeikon in first live demo

The application of Varis's high-speed PostScript RIP to Xeikon print engines, announced at Xplor last fall, is now ready for production. It was being shown live for the first time in San Francisco (see samples on p. 31). VariScript is an alternative to the batched-and-buffered printing approach that is the standard way of doing high-volume, variable-data color printing. The standard approach requires large-capacity disk storage to which files are sent as they are RIP'ed and compressed. Once a large batch of pages is ready, the compressed files are expanded and sent to the print engine. This approach is required when the RIP speed is inadequate to keep up with the print engine.

The VariScript approach avoids the need for batches and buffers by making the RIP'ing process more efficient. It pre-RIPs the fixed part of the job and stores the "graphic state" of the variable part so that re-interpretation of the PostScript commands won't be needed. This approach (plus, in some cases, special-purpose rasterization hardware) is enough to make the RIP process faster than the print engine, and continuous printing is possible without working in batches.

Jobs are typically set up using a Quark Xtension, which creates templates for the fixed parts of the job and placeholders for the variable part. Each placeholder is then linked to a database field. Then, selecting "output to VariScript" creates a PostScript file containing placeholders that VariScript can understand. It also creates a "job ticket" file that contains rules about how the database data are to be linked to the template.

For basic operations, it isn't necessary to know anything about the internals of the job ticket file. But, for complex applications, it provides access to the full power of VariScript. It is written in a scripting language that supports conditional text and other conditional

operations, such as sizing to fit. There is also basic support for pie, bar and 3D pie charts, which can be generated on the fly from information in the database record. VariScript can also generate various types of bar codes.

Varis also has facilities for monitoring which pages actually get printed (critical for financial applications such as statement printing) via a video camera on the output side of the press. This wasn't shown in San Francisco.

The initial beta site where VariScript drives a Xeikon engine is in Minneapolis. Several more are to be installed soon.

Composition of Long Documents

We have seen relatively few dramatic changes in editorial systems for reference publishing and long document production for a couple of years. However, with the steady rise in cross-media publishing, developers seem to be paying more attention to the information management facilities of these systems. Seybold San Francisco provided the opportunity for a number of the vendors active in this market to show some of their advances.

Advent tackles non-Roman languages

Best known for its 3B2 SGML-based page composition system, Advent has recently taken a significant interest in the non-Roman composition market. This has resulted largely from the need to meet the demands of a single Japanese customer, but Advent may have found a ready market for its technology—two customers in Japan have already signed up. The unnamed large manufacturing customer for which Advent has added oriental language support, requires that Advent support a total of 37 languages, including European Roman languages and oriental languages that have been Romanized (such as Vietnamese), plus a range of others that don't use Roman scripts. The most significant of these are Japanese, Chinese and Korean.

The Chinese-Japanese-Korean version of 3B2 demonstrated in San Francisco is still very much alpha software, but it looks as if Advent could have an impressive solution for the oriental language market. The software has full Unicode support and provides the user with a choice of Japanese, Korean or Chinese interfaces.

Although the Unicode implementation is complete, Advent is still working on the typography, which can be extremely complex in ideographic languages. For example, the composition software will have to be able to

build Japanese Kanji ideographs from component Katakana and Hiragana forms. (Katakana refers to the more angular character forms used mostly in scientific and official documents, and used also in spelling out foreign words that have been absorbed into the Japanese language. Hiragana is a cursive form of the syllables that was once intended for use by women. Both syllable types are combined to form the Kanji ideograms.)

Japanese also uses special adjunct characters, called Ruby, that sit alongside Kanji characters.

Advent's 3B2 builds the Kanji characters either through combining Unicode characters or through lookup tables. Both Katakana and Hiragana are believed to derive from a style of Chinese ideographs, but the two are now fundamentally different.

Korean, a horizontal script that is phonetically based, uses character shapes that are altogether different from Chinese and Japanese

characters. Korean forms are also used to annotate some Chinese ideograms, so the difficulties facing Advent are far from trivial.

The new system is expected to be commercially available in January. Advent has already sold systems to two customers in Japan.

Chrystal enhances FrameMaker support

Chrystal, one of the leading developers in the field of SGML and XML, is targeting users in the reference publishing sector who prefer not to use SGML and XML tagging. Last year, it introduced the Canterbury system for FrameMaker documents. This year, it added Quadralay's WebWorks Publisher 2000 (see below) to its support of FrameMaker, simplifying the production of online material. The combination of WebWorks and FrameMaker is intended to provide a single product for technical authors who need to produce content for both Web and printed output.

Canterbury is a database-driven document- and content-management tool that extends the functionality of Chrystal's Astoria SGML- and XML-based document management systems. Canterbury manages data at the file level, creating a content repository that is held separate from FrameMaker's File Manager. The software understands document structure and the relationship between elements, which means that authors of long complex documents can locate elements according to context as well as by version or using basic search criteria such as keyword or element type. When used with FrameMaker documents, Canterbury determines the document structure according to the document's internal tagging. It provides data and workflow management that can therefore be a lot more application-specific, and it is possible to manage individual image content and text at the paragraph level within a FrameMaker document. The idea is to simplify multiple-version authoring, particularly in applications that involve a lot of conditional text management.

WebWorks Publisher 2000 is an online publication utility that maps FrameMaker style definitions to HTML in a single step through the WebWorks interface. (See Quadralay, below.)

Hynet adds output formats

Last year, Hynet relaunched its flagship Directive product for managing and distributing information across organizations and media, managing components using XML and an ODBM-compliant database. It works in conjunction with authoring tools such as Word or FrameMaker.

This year, Hynet demonstrated version 2.5, which adds a transformation engine for generating XML, HTML, Word, FrameMaker and PDF formats to provide greater output flexibility.

Progressive Technologies uses PDF

Founded in 1950, Progressive Technologies is one of the oldest, if not the oldest, companies in the information publishing business. It is best known for its Target 2000 content management software, based on Oracle 8, which separates content records from any associated tagging schemas. The idea is that information will always be adaptable to any type of output, regardless of the technology used.

To its basic product, Progressive Technologies has added integrated workflow management. Target 2000 Workflow includes a special toolkit for setting up projects and tasks that can be assigned to individual users. As each task in a production environment is initiated, the software assigns it to a user. This works well with linear projects, but may not be as suitable for environments where there is a lot of reiterative work.

One of the more interesting products in the booth was a forms technology that is based on a scripted version of PDF that doesn't use Adobe's PDF technology. Instead Progressive Technologies uses Java-scripted forms that sit on top of PDF. The fields in these forms are linked to the objects in the PDF file. The two sets of fields are interactive, which means that each can reflect changes in the other. In the demonstration, the numeric changes to a form were recalculated in PDF, not just as numbers but as dimensions on an illustration. Annotations on the form layer were also converted to body copy in PDF. This is smart software that essentially creates scripted interactive PDF files.

Progressive Technology expects that the primary customers for this technology will be publishers and associations.

Quadrailay links FrameMaker to Web

Quadrailay, a provider of online publishing tools for technical authors, demonstrated its WebWorks Publisher 2000 conversion utility. It turns FrameMaker documents into Web-ready files using a template-based workflow that maps FrameMaker style codes to HTML through a single interface. There is also an automatic table of contents and index generator that can be created from the FrameMaker document, with all page references linked even across publications. These can also be converted to HTTP links.

The software works with other WYSIWYG editors, such as GoLive or Dreamweaver. Chrystal is working with Quadrailay to add WebWorks Publisher 2000 to its support of FrameMaker, which will enable Chrystal users to produce online material more simply. WebWorks also will map SGML elements into online documents.

Quadrailay also demonstrated its new WebWorks Help utility, a browser tool that can be configured to suit the authoring application.

Xy Enterprises sells 3 systems

The company formerly known as Xyvision had no new technologies to show, but it announced three new sales of its Production Publisher system, now running under NT. They are Winthrop Printing, Dana Corp. and Cambridge Press, all using the system to produce complex, high-volume publications.

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? d s

Set	Items	Description
S1	69787003	S PD<20000112
S2	153	S MARKETING(W) (OBJECT OR OBJECTS)
S3	10991	S OBJECT(5N) (CONTAINER OR CONTAINERS)

S4 5746822 S WEBPAGE OR WEBPAGES OR WEB-PAGE OR WEB-PAGES OR WEBSITE OR WEBSITES OR
WEB-SITE OR WEB-SITE

S5 16 S S1 AND S3 AND S4

S6 2765942 S DYNAMIC OR DYNAMICALLY

S7 10 S S5 AND S6

S8 8 RD (unique items)

S9 13 S WEBFORM(W)WIZARD

S10 8 S S1 AND S9

S11 2 RD (unique items)

? s s11 and s6

2 S11

2765942 S6

S12 2 S S11 AND S6

? t s12/k/all

12/K/1 (Item 1 from file: 610)

Business Wire

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Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate
Marketing Now Has a System for Web Delivery...

Text:

Pageflex, Inc. today
announced WebForm Wizard(TM), a new module introduced as part
of the
Pageflex(TM) Mpower(TM) application suite. WebForm Wizard is
designed
to meet the needs of today's marketing organizations by enabling an
on...

...customer information that can be used to deliver
customized marketing information via the Web.

The WebForm Wizard is an NT utility that automatically
generates a
front-end Web submissions page that can...

Using WebForm Wizard, companies can combine the power of the
Internet

with sophisticated customization of their marketing messages...

...group or a single individual. No matter how complex the project, Mpower can assemble it dynamically and deliver it instantly in print, PDF, or via the Web.

According to Paul Trevithick, President of Pageflex, Inc., "The WebForm Wizard gives Mpower customers a jump start on providing on demand marketing services over the web...

...buying decisions more quickly with information customized to their need instantly and delivered via the Internet."

WebForm Wizard is available to all current Pageflex Mpower customers, and will be available as part of the Mpower application suite. For more information about WebForm Wizard and the Pageflex Mpower solution, visit the Web site at www.pageflexinc.com. or call...

12/K/2 (Item 1 from file: 275)
Gale Group Computer DB(TM)
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...focus.

But the company is now addressing input issues as well, with a product called WebForm Wizard. This is a tool for creating Web forms with all the data fields required for...

...to refer only to the company.

For more about the integration of MPower into a "dynamic publishing" system demonstration, see the coverage of Banta in our sister publication, The Seybold Report...

19991115

? d s

Set Items Description

S1 69787003 S PD<20000112

S2 153 S MARKETING(W)(OBJECT OR OBJECTS)
 S3 10991 S OBJECT(5N)(CONTAINER OR CONTAINERS)
 S4 5746822 S WEBPAGE OR WEBPAGES OR WEB-PAGE OR WEB-PAGES OR WEBSITE OR WEBSITES OR
 WEB-SITE OR WEB-SITE
 S5 16 S S1 AND S3 AND S4
 S6 2765942 S DYNAMIC OR DYNAMICALLY
 S7 10 S S5 AND S6
 S8 8 RD (unique items)
 S9 13 S WEBFORM(W)WIZARD
 S10 8 S S1 AND S9
 S11 2 RD (unique items)
 S12 2 S S11 AND S6

? d s

Set Items Description

S1 69787003 S PD<20000112
 S2 153 S MARKETING(W)(OBJECT OR OBJECTS)
 S3 10991 S OBJECT(5N)(CONTAINER OR CONTAINERS)
 S4 5746822 S WEBPAGE OR WEBPAGES OR WEB-PAGE OR WEB-PAGES OR WEBSITE OR WEBSITES OR
 WEB-SITE OR WEB-SITE
 S5 16 S S1 AND S3 AND S4
 S6 2765942 S DYNAMIC OR DYNAMICALLY
 S7 10 S S5 AND S6
 S8 8 RD (unique items)
 S9 13 S WEBFORM(W)WIZARD
 S10 8 S S1 AND S9
 S11 2 RD (unique items)
 S12 2 S S11 AND S6

? t s10/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

10/8/1 (Item 1 from file: 610)

Business Wire

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00094038 19990823235B1500 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate

Marketing Now Has a System for Web Delivery of Customized Information

Monday , August 23, 1999 15:15 EDT

Word Count: 590

Company Names: BITSTREAM INC

Product Names: COMPUTER SOFTWARE; INTERNET; NETWORKS; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; DATA COMMUNICATIONS

10/8/2 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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02369248 Supplier Number: 59175763 (Use Format 7 Or 9 For FULL TEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4512 Line Count: 00364

Geographic Codes/Names: 1USA United States

Descriptors: Trade show report

Event Codes/Names: 240 Marketing procedures

Product/Industry Names: 2700020 (Publishing)

NAICS Codes: 511 Publishing Industries

File Segment: CD File 275

10/8/3 (Item 1 from file: 621)

Gale Group New Prod.Annou.(R)

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02153916 Supplier Number: 55533229 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate

Marketing Now Has a System for Web Delivery of Customized Information.

August 23 , 1999

Word Count: 568

Publisher Name: Business Wire

Industry Names: BUS (Business, General); BUSN (Any type of business)

10/8/4 (Item 1 from file: 16)

Gale Group PROMT(R)

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07002833 Supplier Number: 59175763 (USE FORMAT 7 FOR FULLTEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15 , 1999

Word Count: 4215

Publisher Name: Seybold Publications, Inc.

Event Names: *240 (Marketing procedures)
Geographic Names: *1USA (United States)
Product Names: *2700020 (Publishing)
Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)
NAICS Codes: 511 (Publishing Industries)
Advertising Codes: 55 Company Planning/Goals

10/8/5 (Item 2 from file: 16)
Gale Group PROMT(R)
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06583402 Supplier Number: 55533229 (USE FORMAT 7 FOR FULLTEXT)

Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information.
August 23 , 1999
Word Count: 568
Publisher Name: Business Wire
Industry Names: BUS (Business, General); BUSN (Any type of business)

10/8/6 (Item 1 from file: 148)
Gale Group Trade & Industry DB
(c)2008 The Gale Group. All rights reserved.
11286406 Supplier Number: 55533229 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information.

August 23 , 1999
Word Count: 595 Line Count: 00053
Industry Codes/Names: BUS Business, General; BUSN Any type of business
File Segment: NW File 649

10/8/7 (Item 1 from file: 20)
Dialog Global Reporter
(c) 2008 Dialog. All rights reserved.
06855977 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Pageflex, Inc. Introduces WebForm Wizard for the Pageflex Mpower Application Suite; Corporate Marketing Now Has a System for Web Delivery of Customized Information

August 23, 1999
Word Count: 666
Descriptors: Facilities & Equipment; Company News; Marketing

10/8/8 (Item 1 from file: 570)

Gale Group MARS(R)

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01845851 Supplier Number: 59175763 (USE FORMAT 7 FOR FULLTEXT)

Publishing Applications: Catalogs, Variable Data, Long Documents.(Industry Trend or Event)

Nov 15, 1999

Word Count: 4215

Publisher Name: Seybold Publications, Inc.

Event Names: *240 (Marketing procedures)

Geographic Names: *1USA (United States)

Product Names: *2700020 (Publishing)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

Naics Codes: 511 (Publishing Industries)

Advertising Codes: 55 Company Planning/Goals

? d s

Set	Items	Description
S1	69787003	S PD<20000112
S2	153	S MARKETING(W) (OBJECT OR OBJECTS)
S3	10991	S OBJECT(5N) (CONTAINER OR CONTAINERS)
S4	5746822	S WEBPAGE OR WEBPAGES OR WEB-PAGE OR WEB-PAGES OR WEBSITE OR WEBSITES OR WEB-SITE OR WEB-SITE
S5	16	S S1 AND S3 AND S4
S6	2765942	S DYNAMIC OR DYNAMICALLY
S7	10	S S5 AND S6
S8	8	RD (unique items)
S9	13	S WEBFORM(W)WIZARD
S10	8	S S1 AND S9
S11	2	RD (unique items)
S12	2	S S11 AND S6

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